

ABSTRACT

An apparatus for detecting the signals of transmission diversity based on space-time coding is disclosed. The apparatus and method for detecting signals of space-time coding performs linear interpolation and linear filtering to calculate the channel estimate of each transmission symbol from the channel estimate of each slot, thus providing the correct channel estimate even in a channel with considerable fluctuation. Further, the output control with estimation of SIR only passes a proper output of the demodulating and detecting circuit to improve the signal to noise ratio, maintaining enough communication quality even in a bad communication environment.